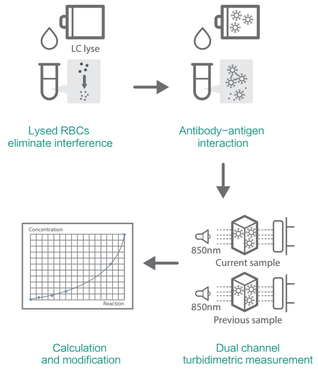
Rapid

Dual CRP Analysis Channels for High Throughput

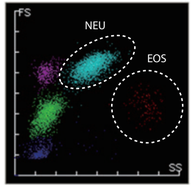
Dual CRP analysis channels working together save waiting time of consecutive tests between hematology and CRP test, enabling a CBC+DIFF+CRP throughput up to 60 samples per hour, which is the fastest in the industry for the same mode of measurement.



Precise

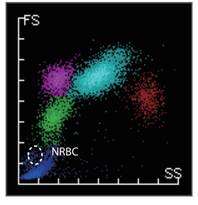
Latex Immunoturbidimetric Technology

Advanced and proven Latex Immunoturbidimetric technology plus two reagents can well guarantee the analyzing accuracy in fast dual-channel CBC+DIFF+CRP test.



Powerful reagent

New powerful reagent improves the 5-part WBC differentiation ability (especially in samples with high number of Eosinophils) and ability to process aged samples (maintained at ambient temperatures up to 24 hours)



NRBC parameters and flag

BC-5390CRP can flag "NRBC" research parameters called NRBC# and NRBC%, which represent respectively the number and ratio of the nucleated red blood cells, facilitating doctors with important diagnostic inferences.

BC-5390CRP

Automated Hematology Analyzer

Technical Specifications

Principal technologies
Impedance method for RBC and PLT counting
Cyanide free reagent for hemoglobin test
Flow Cytometry (FCM) + Laser scatter + Chemical dye method for WBC differential
Latex Immunoturbidimetric Method for CRP test

Parameters
26 reportable parameters: WBC, Lym%, Mon%, Neu%, Bas%, Eos%, Lym#, Mon#, Neu#, Eos#, Bas#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW，PCT, P-LCC, P-LCR, FR-CRP
6 research parameters：ALY#, ALY%, LIC#, LIC%, NRBC%, NRBC#
3 histograms for WBC, RBC and PLT
1 scattergram: Differential scattergram

Sample mode
Venous whole blood mode
Capillary whole blood mode
Prediluted mode

Sample Volume

CBC mode	20 μL
CBC + DIFF mode	20 μL
CBC + DIFF + CRP mode	35 μL
CRP mode	20 μL
Prediluted mode	20 μL

Performance

	Carryover	Precision	Linearity
WBC	≤0.5%	≤2.0% (4-15×10^9/L)	0.00-400.00×10^9/L
RBC	≤0.5%	≤1.5% (3.5-6.0×10^{12}/L)	0.00-8.00×10^{12}/L
HGB	≤0.6%	≤1.5% (110-180g/L)	0-250g/L
PLT	≤1.0%	≤4.0% (150-500×10^9/L)	0-5000×10^9/L
FR-CRP	≤1.0%	SD≤0.50mg/L(≤10mg/L) CV≤4%(>10mg/L)	0.2-320mg/L

Throughput
CBC+DIFF：up to 60 samples per hour
CBC+DIFF + CRP：up to 60 samples per hour
CRP：up to 60 samples per hour

Data Storage Capacity
Up to 40,000 results with numeric and graphical information

Communication
LAN Port supports HL7 protocol
Support bi-directional LIS

Operating Environment
Ambient temperature: 15°C - 30°C
Relative humidity: 30% - 85%
Atmospheric pressure: 70kPa - 106kPa

Power requirement
Voltage: 100V-240V
Frequency: 50Hz/60Hz

Dimension and Weight
Width×Height×Depth: 570mm×560mm×700mm
Weight: 65kg

Reagents
M-53D Diluent
M-5 LEO (I) Lyse
M-5 LEO (II) Lyse
M-53LH Lyse
LC Lyse
C-reactive Protein(CRP) Kit(Latex Immunoturbidimetric Method)
Probe Cleanser

Mindray Building, Keji 12th Road South,
High-tech Industrial Park, Nanshan, Shenzhen 518057, P.R. China
Tel: +86 755 8188 8998 Fax: +86 755 26582680
E-mail: intl-market@mindray.com www.mindray.com
Mindray is listed on the NYSE under the symbol "MR"

P/N: ENG-BC-5390CRP-210285x6-20150421

mindray

BC-5390CRP

Automated Hematology Analyzer

1 tube solution for CBC+DIFF and CRP

mindray
healthcare within reach

What is 1 tube solution?

By conventional technology

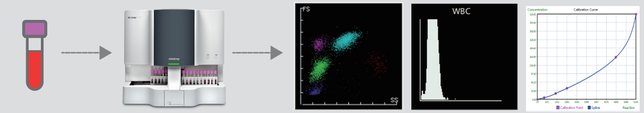
Sample collection | Hematology analysis | 5-part results of WBC

Step 1 One tube of blood sample used to obtain 5-part classification of WBC parameters, such as lymphocyte, monocyte, neutrophil & eosinophil in DIFF channel and basophil in the dedicated BASO channel.

Sample collection | Sample centrifugation | Serum separation | Biochemistry analysis | CRP or HS-CRP result

Step 2 Another tube of blood sample required for Biochemistry analysis to determine CRP or HS-CRP, depending on different reagents used.

By BC-5390CRP



Sample collection | BC-5390CRP | 5-part results of WBC and FR-CRP*

Only one tube of blood sample is required, and only 35 µl of that utilized by BC-5390 CRP, to simultaneously provide results of WBC parameters and Full Range C-reactive protein (FR-CRP). This combined data helps in quick differentiation of bacterial infection from virus infection.

*FR-CRP: Full Range CRP

BC-5390CRP

Automated Hematology Analyzer

Combining the advanced technology of hematology analysis and latex immunoturbidimetry, BC-5390CRP requires only 35µl blood from a single blood tube, to simultaneously provide results of WBC 5-part differentiation and FR-CRP at a throughput speed of 60 samples/hour.

C-reactive protein (CRP) is an important diagnostic parameter to detect inflammation, monitor progress of inflammatory process or effectiveness of therapeutic treatment. Availability of CRP and WBC parameter data simultaneously, helps in prompt differentiation of bacterial infections from viral infections.

- 5-Part WBC differentiation + CRP, 32 parameters, 1 scattergram and 3 histograms
- Supports individual CRP test mode
- Semi-conductor Laser scatter + Chemical dye method + Advanced flow cytometry + Latex Immunoturbidimetric Method
- Real time monitoring of CRP response curves to preserve the accuracy of the results
- Only 20 µl sample volume for CBC + DIFF results
- 40 tubes autoloader with random access
- Closed tube for STAT samples
- Up to 60 samples processed per hour
- Supports whole blood mode for capillary sample
- Large storage capacity: up to 40,000 samples
- Thermostat controlled on-board storage for latex reagent
- Supports bi-directional LIS

Convenient

Capillary whole blood mode

Capillary whole blood mode offers convenient analysis of pediatric and geriatric blood samples.

Thermostat storage and RF technology

Built-in thermostat (2-8℃) storage conveniently keeps the CRP latex reagent in refrigerated state, even after the analyzer is turned off, eliminating need for external storage.

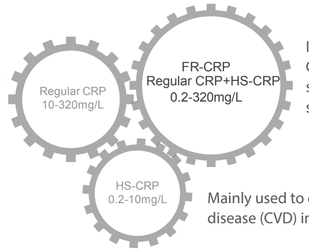
Advanced Radio Frequency (RF) technology automatically detects the latex reagent information, instead of manual scanning, which makes it more convenient.

Individual CRP mode

Individual CRP test mode helps saving of hematology reagents on samples that need only CRP analysis.

Full Range CRP test

Mainly used to detect or monitor significant inflammation



Increases range of detection in CRP positive specimen while simultaneously improving sensitivity at low levels of CRP.

Mainly used to evaluate risk of cardiovascuar disease (CVD) in an individual